LA438 LA538 LA638 LA738 LA838 LA938 LA1038 LA1438 LA1838

LA2038



MANUFACTURER'S LIMITED TWO YEAR WARRANTY

LEGACY SOUND CORP. warrants this unit to be free from defective material or workmanship and will repair or replace this unit or any part thereof if it proves defective in normal use or service within two (2) years from the date of original purchase.

Our obligation under this warranty is limited to repairing or replacing, at our discretion, the defective instrument or any part thereof when it is returned, transportation prepaid to the Legacy Service Center at the address below. This warranty will be considered void if the unit has been tampered with, improperly serviced, subjected to abuse or misuse or jf installed in a commercial vehicle. This warranty does not cover accidental damage. When returning this unit for service, please include \$15.00 for return postage and handling. Send your unit to:

> LEGACY SERVICE CENTER 1600 63rd Street Brooklyn, NY 11204

IMPORTANT: Pack carefully in original carton if possible. We are not responsible for damage incurred in returning items for repair. A letter stating your exact street address, daytime phone number, and the problem you are experiencing should be included. You must also enclose a copy of the original receipt as proof of date of purchase.

FOR YOUR PROTECTION Completely and immediately mail the Product Registration Card so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Product Safety Act, or for other reasons Legacy may deem necessary.

TECHNICAL SUPPORT HOTLINE Our technical department will gladly answer any questions you may have about our products. They cannot, however tell you the status of a repair, or handle other customer tell you the status of a repair, or handle other customer service situations.

1-800-934-2277 Monday through Thursday, 9AM to 5PM Friday 9AM to 2PM Eastern.



HIGH SPEED CAR AMPLIFIER

USER'S MANUAL

American Legacy Amplifier Features

- LED Light Bar with Hold or Scan
 Soft turn on/off circuit
 Variable gain control
 Remote turn on/off
 Hi/low level inputs
 Power on LED indicator

- Fully adjustable electronic crossover network
 Remote control Bass boost (0 +18dB @ 60Hz)
 2 ohm stereo stable
 Bridgeable into 4 ohms
 MOSFET PWM power supplies
 LED protection indicator

American Legacy amplifier !

Legacy amps are some of the most advanced car amplification products available. These quality audio products are designed and engineered to afford you years of uncompromised musical service. Legacy has utilized the latest electronic technologies in order to deliver a superb listening experience.

This innovative system has been designed utilizing a 12 V DC Negative Ground power supply. The LEGACY Series amps incorporate two to eight MOSFETS in the different models.

This design produces enough available voltage to supply the main amplifier sections, and still have a huge amount of reserve voltage for peak "high demand" situations.

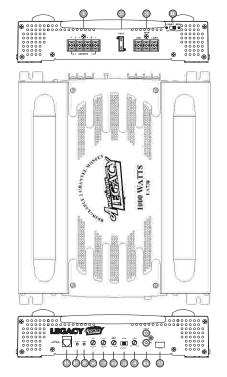
The Legacy line has been designed to ensure adequate headroom for even the most demanding peaks and dynamic ranges found on today's CD's and recordings. Used properly, these amplifiers will provide you with years of listening pleasure.

table of contents SPECIFICATIONS

LA438/538/738/938/1438/1838/2038 FEATURES & CONTROLS LA638/838/1038 FEATURES & CONTROLS ELECTRICAL WIRING, INSTALLATION & SETUP 2 CH STEREO INPUT CONNECTIONS 4 CH STEREO INPUT CONNECTIONS BRIDGED INPUT CONNECTIONS BASIC STEREO SPEAKER CONNECTIONS MONO-BRIDGED SPEAKER CONNECTIONS TROUBLESHOOTING WARRANTY

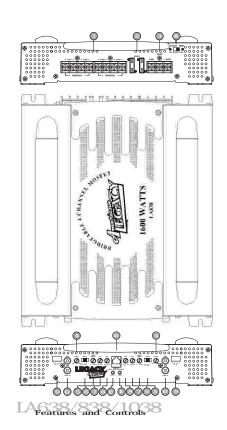
Specifications	LA438 2CH amplifier	LA538	LA638 4CH amplifier	LA738 2CH amplifier	LA838 4CH amplifier	LA938 2CH amplifier	LA1038 4CH amplifier	LA1438	LA1838 2CH amplifier	LA2038 2CH amplifier
OUTPUT POWER RMS @ 4 OHMS RMS @ 2 OHMS MAX OUTPUT BRIDGE MODE	2 X 40W 2 X 60W 2 X 300W 1 X 600W	2 X 50W 2 X 75W 2 X 400W 1 X 800W	4 X 35W 4 X 55W 4 X 250W 2 X 250W+500W 0R 2 X 500W	2 X 75W 2 X 125W 2 X 500W	4 X 50W 4 X 75W 4 X 400W 2 X 400W+800W 0R 2 X 800W	2 X 90W 2 X 150W 2 X 600W 1 X 1200W	4 X 75W 4 X 115W 4 X 500W 2 X 500W+1000W 0R 2 X 1000W	2 X 125W 2 X 200W 2 X 800W 1 X 1600W	2 X 150W 2 X 225W 2 X 1000W 1 X 2000W	2 X 200W 2 X 300W 2 X 1200W 1 X 2400W
FREQUENCY RESPONSE INPUT IMPEDANCE LOW LEVEL INPUTS HIGH LEVEL INPUTS	10Hz-30 kHz									1
NPUT SENSITIVITY LOW LEVEL INPUTS HIGH LEVEL INPUTS	250 mV 2.5V									
POWER SUPPLY VOLTAGE MATCHING SPEAKER IMPEDANCE STEREO MODE BRIDGED MODE	14.4 VDC/NEG 2-4 OHMS 4-8 OHMS	GD (10.5-16V) 2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS
MAXIMUM CURRENT DRAW	15 A	15 A	20 A	20 A	30 A	30 A	40 A	30 A	40 A	50 A
DIMENSIONS, W x H x L, inches (mm)	11 X 2.7 X 8.2 (279 X 69 X 20	2 5 1 X 2.7 X 9.25 9)279 X 69 X 235)	11 X 2.7 X 12 (279 X 69 X 305)		11 X 2.7 X 15 (279 X 69 X 381)		11 X 2.7 X 17 (279 X 69 X 432)			11 X 2.7 X 19 (279 X 69 X 482)
NET WEIGHT, LBS (KG)	5.7 (2.5)	6.2 (2.8)	8.1 (3.7)	7.5 (3.4)	9.5 (4.3)	8.4 (3.8)	10.6 (4.8)	9.2 (4.2)	10.6 (4.8)	11.4 (5.2)

Features and Specifications



LA438/538/738/938/1438/1838/2038

- Power Supply Terminals
- Input Level Control Use this control to match the output of the head unit to the amplifier. If distortion is present, reduce the
- Crossover Mode Switch is a full range system, set this to FULL if the amp is being used to power a crossover system, set to either HPF or LPF as needed.
- Bass Boost Control Allows you to increase the bass signal le speakers
- Low Pass Control Pemits you to adjust the crossover frequency from 35 Hz to 400 Hz to suit the subwoofers
- High Pass Control Permits you to adjust the crossover frequency from 80 Hz to 2.5 kHz to suit the tweeters
- High Level Input (Low Impedance) Use these if your car stereo does not have RCA output jacks: connect the speaker output from the head unit to these inputs
- Low Level Input (High Impedance) This unit is provided with gold plated RCA input jacks. Using RCA-RCA type partch cords, commert these inputs to the RCA outputs from your head unit.
- Power LED Indicator This LED is illuminated when the REMOTE ON system is turned on. ി
- Protection LED Indicator The protection circuitry in the amp will
- im If the amp shut off because of a the allow it to cool down before attemp
- ker short circuit, be as before atternet a the REMOTE
- Remote Bass Boost (LA438 WITHOUT) Plug in the Remote Bass Boost Control wire in
- LED Light Bar Switch. When switch set at "SCAN" position the LEDs scan automatically from left to right over top cover When switch set at "Hold" position light up all the automat When sw LED_ind



rminals 14K Gold plat

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- Input Level Control Use this control to match the output of the head unit to the amplifier. If distortion is present, reduce the
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- High Pass Control adjust the crossover frequence kHz to suit the tweeters gh Level Input (Low Impedance)

3

- RCA output jacks: connect the spea the head unit to these inputs
- Low Level Input (High Impedance) This unit is provided with gold-plated RCA input jacks. Using RCA-RCA type patch cords, connect these inputs to the RCA outputs from your head
- Power LED Indicator This LED is illuminated when the REMOTE ON
- otection LED Inc
- If the amp shut off because of a the allow it to cool down before attemp
- uit, be To reset the amp, turn the REMOTE por again.
- в Remote Bass Boost (LA638 WITHOUT) Plug in the Remote Bass Boost Control wire in
- LED Light Bar Switch. When switch set at "SCAN" position, the LEDs scan automatically from left to right over top cover When switch set at "Hold" position light up all the LED indicator.

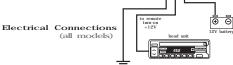


1. Connect the $\pm 12V$ terminal directly to the car battery (+) terminal.

2. Connect the GROUND terminal directly to the car battery (-) terminal OR to a good clean, paint-free chassis ground point.

3. To ensure a good ground, and to prevent "motor-boating" noise in the system, make an additional connection from the car battery (-) terminal to the chassis of the stereo unit, using 12 gauge minimum wire.

 Connect the REMOTE terminal to an external switch for positive 12V turnon-off. This may be connected to the head unit power antenna lead.



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Installation Precautions

This amplifier comes complete with all mounting harware required. Please remember that this is a high-power unit, which generates considerable electrical energy and heat. Therefore, be sure to install the unit in a place with sufficient airflow, a minimum of dust, and no moisture. Allow enough space around the cooling first to permit reasonable airflow and cooling.

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Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic line and electrical wiring.

• Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.

• Do not mount this amplifier so that the wire connections are unprotected or in a pinched condition, or likely to be damaged by nearby objects. Be sure to select a location inside your vehicle which has adequate ventilation.

 Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

• If you need to replace the power fuse, only replace it with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to your system which isn't covered by the manufacturer's warranty.

Setting Up and Turning On Your New Amplifier

After all electrical connections have been made, and physical installation is complete, turn on your stereo and listen for the amplifier to turn on. If there are any unusual noises from the speakers, turn the stereo off and recheck ALL wiring.

Assuming the amplifier turn on normally, you may have to adjust the LEVEL control(s) to match the output levels from your head unit. Follow these steps:

1. Set the volume control on your head unit to about the 2/3 position

2. Adjust the amplifier LEVEL control(s) to an average listening position.

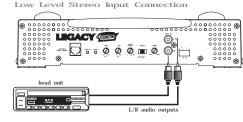
3. Turn the head unit volume all the way down, and listen for background noise.

4. Start your vehicle, and again, listen for background noise.

5. By fine tuning the LEVEL control(s), you can reduce background and engine noise, if present.

These adjustments should only be made once. After that, use the head unit volume control to adjust the system volume, not the LEVEL control(s). CAUTION: Never turn the LEVEL control(s) up any higher than you need to get clear sound at 2/3 volume on the head unit.

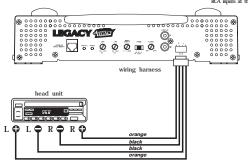
Electrical Wiring and Installation



LA438 LA538 LA738 LA938 LA1438 LA1838 LA2038 2CH AMPS

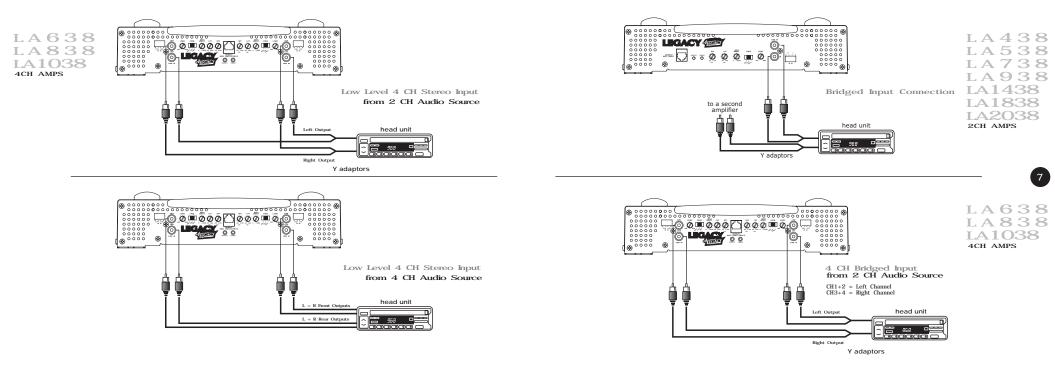
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High Level Stereo Input Connection HEASENDIH I using high level inputs do not use the two level RCA inputs at the same time!



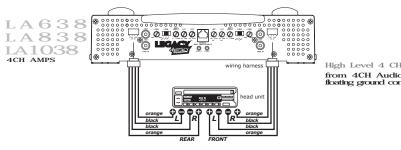
from speaker terminals

Input Connections

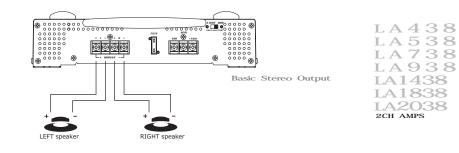


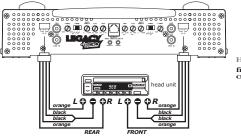
Input Connections

Input Connections



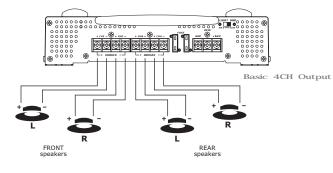






High Level 4 CH Stereo Input from 4CH Audio Source common ground connection

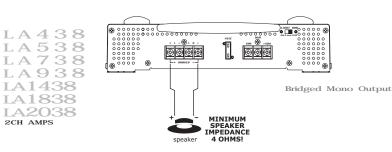
Input Connections

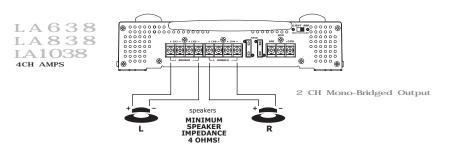




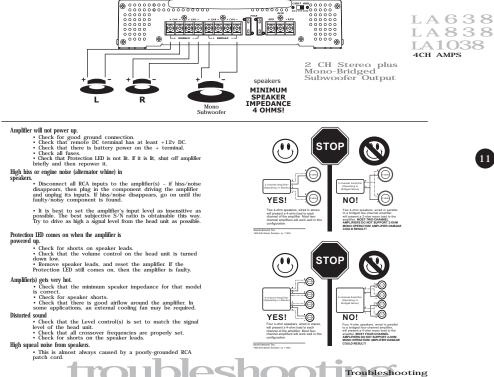
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Speaker Connections





Speaker Connections



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